ABSTRACT OF THE DISCLOSURE

[1028]   According to some embodiments, a memory management unit receives a virtual address and provides a corresponding physical address. The memory management unit stores generated virtual address-to-physical address translations. If a virtual address-to-physical address translation is available for a particular virtual address, the memory management unit retrieves the corresponding physical address. If a translation is not available, the memory management unit generates the corresponding physical address from the virtual address. The memory management unit converts the virtual address to a modified virtual address using a process identifier and then performs a page table walk using the modified virtual address, generating the physical address.